

1701

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Customer Number: 20277

Haruhisa TOYODA, et al.

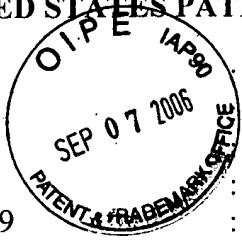
Confirmation Number: 8290

Application No.: 10/565,939

Group Art Unit: 1742

Filed: January 26, 2006

Examiner: Not yet assigned



For: SOFT MAGNETIC MATERIAL, DUST CORE, TRANSFORMER CORE, MOTOR CORE, AND METHOD OF MANUFACTURING DUST CORE

REQUEST FOR CORRECTED FILING RECEIPT

Mail Stop COFR
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

Sir:

Attached is a copy of the Filing Receipt received from the U.S. Patent and Trademark Office in the above-referenced application. It is noted that the number of independent claims is incorrect. Attached is a copy of the Preliminary Amendment, which evidences that the number of independent claims is 1. It is requested that a corrected filing receipt be issued.

Respectfully submitted,

McDERMOTT WILL & EMERY LLP

Stephen A. Becker
 Registration No. 26,527

600 13th Street, N.W.
 Washington, DC 20005-3096
 Phone: 202.756.8000 SAB:vmm
 Facsimile: 202.756.8087
 Date: September 7, 2006

**Please recognize our Customer No. 20277
 as our correspondence address.**



UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY.DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/565,939	01/26/2006	1742	450	0704560100	3	8	2 1

CONFIRMATION NO. 8290

20277
MCDERMOTT WILL & EMERY LLP
600 13TH STREET, N.W.
WASHINGTON, DC 20005-3096

FILING RECEIPT



OC000000019619623

Date Mailed: 07/18/2006

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Haruhisa Toyoda, Hyogo, JAPAN;
Ryuji Shiga, Hyogo, JAPAN;
Hirokazu Kugai, Hyogo, JAPAN;
Yoshiyuki Shimada, Hyogo, JAPAN;
Shohzoh Tanaka, Nara, JAPAN;
Kazuhiko Ueda, Nara, JAPAN;

RECEIVED
JUL 27 2006

McDermott Will & Emery LLP
DC Office

Power of Attorney: The patent practitioners associated with Customer Number 20277.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP04/10954 07/30/2004

Foreign Applications

JAPAN 2003-282961 07/30/2003

If Required, Foreign Filing License Granted: 07/14/2006

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US10/565,939**

Projected Publication Date: 10/26/2006

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ******Title**

Soft magnetic material, dust core, transformer core, motor core, and method for producing dust core

Preliminary Class

148

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The

date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).



Docket No.: 070456-0100

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of :
Haruhisa TOYODA, et al. :
Application No.: Not yet assigned : Group Art Unit: Not yet assigned
Filed: January 23, 2006 : Examiner: Not yet assigned

For: SOFT MAGNETIC MATERIAL, DUST CORE, TRANSFORMER CORE, MOTOR
CORE, AND METHOD OF MANUFACTURING DUST CORE

CORRECTED PRELIMINARY AMENDMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Prior to examination of the above-referenced application, please amend the application as follows:

Amendments to the Specification are on page 2 of this paper.

Amendments to the Claims begin on page 3 of this paper.

Amendments to the Abstract are on page 5 of this paper.

Remarks/Arguments are on page 6 of this paper.

IN THE SPECIFICATION

Please insert the following paragraph on page 1 after the title of the invention and before the "Technical Field":

--RELATED APPLICATION

This application is a national phase of PCT/JP2004/010954 filed on July 30, 2004, which claims priority from Japanese Application No. 2003-282961 filed on July 30, 2003, the disclosures of which Applications are incorporated by reference herein. The benefit of the filing and priority dates of the International and Japanese Applications is respectfully requested.--

IN THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A soft magnetic material, comprising:

a plurality of composite magnetic particles (30) each having a metal magnetic particle (10) and an insulating film (20) surrounding a surface of said metal magnetic particle (10), and an organic substance (40) joining said plurality of composite magnetic particles (30) together,

wherein said organic substance (40) has a deflection temperature under load of not more than 100°C. 70°C, and a magnetic flux density when a magnetic field of 100 (oersted) is applied to a dust core fabricated using the soft magnetic material is not less than 1.4 (T: tesla).

Independent

2. (Currently Amended) The soft magnetic material according to ~~claim 1~~, wherein a ratio of said organic substance (40) to the soft magnetic material is ~~more than 0 and not more than 1.0% by mass, not less than 0.3% by mass and not more than 0.5% by mass.~~

3. (Currently Amended) A dust core using the soft magnetic material according to ~~claim 2~~, wherein ~~a magnetic flux density when a magnetic field of 100 (oersted) is applied is not less than 1.3 (T: tesla), the dust core is formed as a hollow cylinder having a height H and a wall thickness T, said height H being not less than 25 mm and a ratio H/T of said height H to said wall thickness T being not less than 3.~~

4. (Currently Amended) The soft magnetic material according to claim 1, wherein a ratio of said organic substance (40) to the soft magnetic material is ~~more than 0 and not more than 0.5% by mass. The dust core according to claim 3, wherein said hollow cylinder has an outer diameter of not less than 30 mm.~~

5. (Currently Amended) ~~A dust core using the soft magnetic material according to claim 4, wherein a magnetic flux density when a magnetic field of 100 (oersted) is applied is not less than 1.4 (T:tesla). A linear motor core using the dust core according to claim 3.~~

6. (Currently Amended) A transformer core using the dust core according to ~~claim 5~~, wherein the ratio of said organic substance (40) to the soft magnetic material is not less than 0.3% by mass and not more than 0.5% by mass ~~3~~.

7. (Currently Amended) ~~The dust core according to claim 5, wherein~~

~~the dust core uses the soft magnetic material containing said organic substance (40) by not less than 0.3% by mass and not more than 0.5% by mass, and~~

~~the dust core is formed as a hollow cylinder having a height H and a wall thickness T, said height H being not less than 25 mm and a ratio H/T of said height H to said wall thickness T being not less than 3. A method of manufacturing the dust core according to claim 3, comprising the steps of:~~

preparing a mold having an inner wall and defining a compression space at a location surrounded by said inner wall, and

putting the soft magnetic material into said compression space without applying a lubricant to said inner wall, and compression molding the soft magnetic material.

8. (Currently Amended) ~~A motor core using The method of manufacturing the dust core according to claim 7, further comprising the step of performing thermal treatment after said step of compression molding, at a temperature of more than a glass transition temperature of said organic substance and not more than a thermal decomposition temperature of said organic substance.~~

9-15. (Cancelled)

IN THE ABSTRACT

This paragraph will replace all prior versions of itself in the application.

--ABSTRACT

A soft magnetic material includes a plurality of composite magnetic particles (30) each having a metal magnetic particle (10) and an insulating film (20) surrounding a surface of the metal magnetic particle (10), and an organic substance (40) joining the plurality of composite magnetic particles (30) together. The organic substance (40) has a deflection temperature under load of not more than 100°C. With this structure, the soft magnetic material can obtain a desired magnetic property.--

REMARKS

The Specification has been amended to incorporate the continuity. The Claims have been amended for clarity and to delete the reference signs. The Abstract has been amended to delete the reference signs. No new matter has been introduced. Entry of this amendment is respectfully solicited.

Respectfully submitted,

McDERMOTT WILL & EMERY LLP


Stephen A. Becker
Registration No. 26,527

600 13th Street, N.W.
Washington, DC 20005-3096
Phone: 202.756.8000 SAB:sln
Facsimile: 202.756.8087
Date: January 26, 2006

**Please recognize our Customer No. 20277
as our correspondence address.**